

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A reinforcing bar binder ~~having comprising~~ a storing chamber provided in a main body of the reinforcing bar binder for mounting a wire reel around which a wire for binding a reinforcing-bar is wound, the wire is twisted for binding a reinforcing bar after it is wound around the reinforcing bar;
wherein said storing chamber is provided with a first ~~detecting means~~ detector for detecting the amount of rotation of said wire reel and a second ~~detecting means~~ detector for detecting the number of second to-be-detected portions on said wire reel.

2. (Currently Amended) A reinforcing bar binder ~~having comprising~~ a storing chamber provided in a main body of the reinforcing bar binder for mounting a wire reel around which a wire for binding a reinforcing-bar is wound, the wire is fed by rotating the wire reel and twisted for binding a reinforcing bar after it is wound around the reinforcing bar;
wherein said storing chamber is provided with a first ~~detecting means~~ detector for detecting the amount of rotation of said wire reel and a second ~~detecting means~~ detector for detecting the number of second to-be-detected portions on the wire reel during the amount of rotation detected by the first detecting means; and

the binder main body is provided with ~~controlling means~~ a controller for controlling the amount of feeding of the wire or the twisting torque on the wire depending on the number of the second to-be-detected portions detected by the second ~~detecting means~~ detector.

3. (Currently Amended) The reinforcing bar binder according to Claim 1 or Claim 2, wherein the first ~~detecting means~~ detector detects first to-be-detected portions on the wire reel to detect the amount of rotation of said wire reel.

4. (Currently Amended) The reinforcing bar binder according to Claim 3, wherein the first ~~detecting means~~ detector is a contact-type sensor and the first to-be-detected portions are convex portions or concave portions which are detected by the contact-type sensor while the second ~~detecting means~~ detector is a non-contact type sensor and the second to-be-detected portions are marks which are detected by the non-contact type sensor.

5. (Currently Amended) A wire reel used in a reinforcing bar binder ~~having comprising~~ a storing chamber provided in a main body of the reinforcing bar binder for mounting the wire reel around which a wire for binding a reinforcing-bar is wound, the wire is twisted for binding a reinforcing bar after it is wound around the reinforcing bar;

wherein the reel main body is provided with first to-be-detected portions which are detected by a first ~~detecting means~~ detector in the reinforcing bar binder and

second to-be-detected portions which are detected by a second ~~detecting means~~
detector in the reinforcing bar binder.

6. (Currently Amended) The wire reel according to Claim 5, wherein the first to-be-detected portions are detected by the ~~first detecting means~~ detector to detect the amount of rotation of the wire reel and the second to-be-detected portions are detected by the ~~second detecting means~~ detector to identify the type of the wire reel.

7. (Currently Amended) The wire reel according to Claim 5 or ~~Claim 6~~, wherein the ~~first detecting means~~ detector is a contact-type sensor and the first to-be-detected portions are convex portions or concave portions which are detected by the contact-type sensor while the ~~second detecting means~~ detector is a non-contact type sensor and the second to-be-detected portions are marks which are detected by the non-contact type sensor.

8. (Original) A wire-reel identifying method used in a reinforcing bar binder having a storing chamber provided in a main body of the reinforcing bar binder for mounting a wire reel around which a wire for binding a reinforcing-bar is wound, the wire is fed by rotating the wire reel and twisted for binding a reinforcing bar after it is wound around the reinforcing bar;

wherein the amount of rotation of the wire reel is detected and the number of to-be detected portions provided on the wire reel is detected during the detected amount of rotation of the wire reel to identify the type of the wire reel.

9. (Original) The wire-reel identifying method according to Claim 8, wherein the amount of feeding of the wire or the twisting torque on the wire is adjusted in accordance with the identified type of the wire reel.

10. (Currently Amended) A wire-reel identifying method used in a reinforcing bar binder having a storing chamber provided in a main body of the reinforcing bar binder for mounting a wire reel around which a wire for binding a reinforcing-bar is wound, the wire is fed by rotating the wire reel and twisted for binding a reinforcing bar after it is wound around the reinforcing bar;

wherein first to-be-detected portions provided on the reel main body are detected by a first ~~detecting means~~ detector to detect the amount of rotation of the wire reel; and

the number of second to-be detected portions provided on the reel main body is detected by a second ~~detecting means~~ detector during the detected amount of rotation of the wire reel to identify the type of the wire reel.

11. (Currently Amended) The wire reel identifying method according to Claim 10, wherein the first ~~detecting means~~ detector is a contact-type sensor and the first to-be-detected portions are convex portions or concave portions which are detected by the contact-type sensor while the second ~~detecting means~~ detector is a non-contact type sensor and the second to-be-detected portions are marks which are detected by the non-contact type sensor.

12. (New) The reinforcing bar binder according to Claim 2, wherein the first detector detects first to-be-detected portions on the wire reel to detect the amount of rotation of said wire reel.

13. (New) The reinforcing bar binder according to Claim 12, wherein the first detector is a contact-type sensor and the first to-be-detected portions are convex portions or concave portions which are detected by the contact-type sensor while the second detector is a non-contact type sensor and the second to-be-detected portions are marks which are detected by the non-contact type sensor.

14. (New) The wire reel according to Claim 6, wherein the first detector is a contact-type sensor and the first to-be-detected portions are convex portions or concave portions which are detected by the contact-type sensor while the second detector is a non-contact type sensor and the second to-be-detected portions are marks which are detected by the non-contact type sensor.